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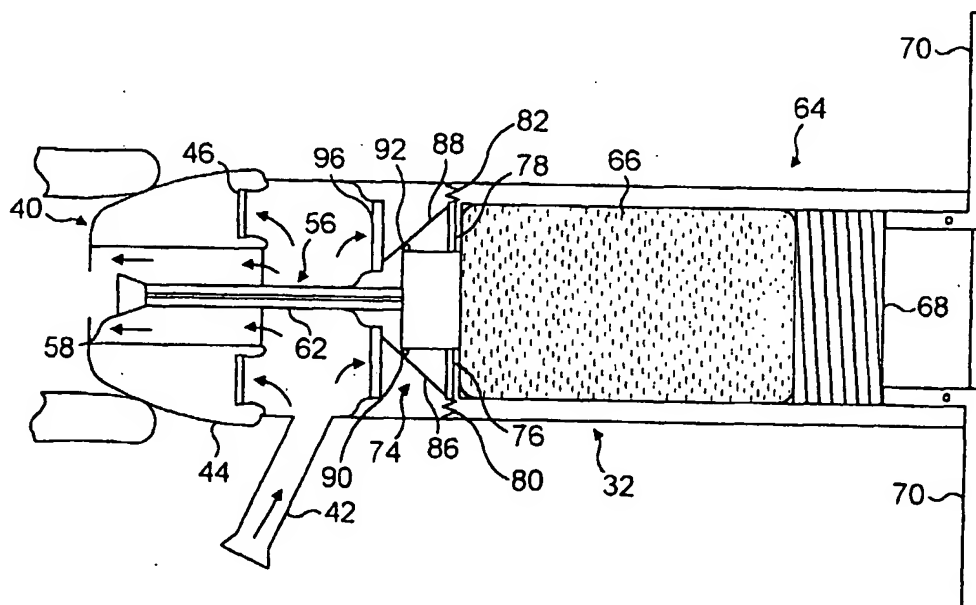
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(54) Title: **NASAL DELIVERY DEVICES**



(57) Abstract: An exhalation breath-actuated nasal delivery device for and a method of delivering a substance to a nasal cavity of a subject, the delivery device comprising: a nosepiece (40) for fitting to a nostril of a subject; a mouthpiece (42) through which the subject in use exhales; and delivery unit (64), as one of a mechanical delivery pump (66) or a nebulizer (115), for delivering a substance to the nosepiece (40); and an actuation mechanism (74) for actuating the delivery unit in response to oral exhalation through the mouthpiece, and preferably when at least one or both of the pressure at or the flow rate through the nosepiece exceeds a predetermined threshold.

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB 02/01612

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61M15/08 A61M11/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EP0-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 00 51672 A (DJUPESLAND PER GISLE) 8 September 2000 (2000-09-08)	1-16, 47, 48
Y	the whole document	32-39
A	WO 00 35523 A (VALOIS SA ;STRADELLA GIUSEPPE (IT)) 22 June 2000 (2000-06-22) page 3, line 3 - line 4 page 8, line 23 -page 9, line 28; figures 1-4	1-16
Y	WO 97 31721 A (MEDIX LTD ;HOPKINS ANDREW DAVID (GB)) 4 September 1997 (1997-09-04) abstract; figure 1	32-39
A	WO 93 18812 A (GALLI ROSARIA & C) 30 September 1993 (1993-09-30) abstract	1-16
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☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

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- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
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X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

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5 September 2002

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INTERNATIONAL SEARCH REPORT

International Application No
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 98 03267 A (ELECTROSOLS LTD ;COFFEE RONALD ALAN (GB)) 29 January 1998 (1998-01-29) page 2, paragraph 2 -----	39

INTERNATIONAL SEARCH REPORT

International application No.
PCT/IB 02/01612

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 17-31, 40-46
because they relate to subject matter not required to be searched by this Authority, namely:
Method of treatment of the human body by therapy (Art.17.2.a.1) and Rule 39.1.1v) PCT)
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

☐ The additional search fees were accompanied by the applicant's protest.

☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

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